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CHAPTER REPORTS

THE PENNSYLVANIA CHAPTER

The program for the year, 1918-1919, was as follows:

November 20, 1918. Supper in the Engineering Building. Address by Robert H. Fernald, Whitney Professor of Dynamical Engineering, Is Our Fuel Supply Nearing Exhaustion? (Illustrated.) At the conclusion of the address, the Laboratories were in operation and open for inspection.

January 22, 1919. Supper in Houston Hall. Election of new members. Address by Walter T. Taggart, Professor of Organic Chemistry, Recent Development of Chemistry in America. (Illustrated.) The Address was given in the Harrison Laboratory of Chemistry.

March 12, 1919. Supper in Houston Hall. Initiation of new members. Symposium on Intelligence Tests, given in the Laboratory of Psychology, room 110, College Hall: Fundamentals in Intelligence Testing, Lightner Witmer, Ph.D., Professor of Psychology. Memory Span Test, H. J. Humpstone, Ph.D. An Efficiency Test distinguished from an Intelligence Test, A. L. Ide, Ph.D. The Correlation of Test Ratings and College Grades, F. H. Reiter, Ph.D. Psychology in the U. S. Air Service, K. G. Miller, Lieutenant in the Sanitary Corps, Psychology Division.

May 1, 1919. Joint Meeting with Phi Beta Kappa. In Houston Hall. Chairman, Dean A. H. Quinn, President of the Pennsylvania Chapter of Phi Beta Kappa. Address by Dr. William E. Safford, Economic Botanist, U. S. Department of Agriculture, former Governor of the Island of Guam, Pacific Ocean. Plants in the Arts and Industries of the Ancient Americans. An informal reception followed the exercises.

June 11, 1919. At 5 p. m. members and guests met in the Gardens of the Zoological Society of Philadelphia, Girard Ave. and 34th St. 5:00-6:45 p. m., Tour of Inspection under the direction of guides. 6:45 p. m., Supper in the Restaurant of the Zoological Gardens. 8:15 p. m., Address by Frederick D. Weidman, M.D., acting Pathologist of the Zoological Society, Medical Activities in the Zoological Gardens. Dr. W. C. Farabee described incidents of his zoological work in the Amazon Valley, and Mr. C. Emerson Brown,

Superintendent of the Gardens, spoke briefly upon the feeding of the animals.

NEW MEMBERS ELECTED JANUARY 22, 1919

From the Instructional Staff

STANLEY PHILIP REIMANN, M.D. University of Pennsylvania. *Acting assistant instructor in Pathology, University of Pennsylvania. Chief of Laboratories, Lankenau Hospital, Philadelphia, Pa.*

Research work: Pathology and Physiology Acid-Base regulatory mechanism of body from standpoint of anaesthesia. Publications: The Decreased Plasma Bicarbonate During Anaesthesia and Its Cause. Jour. Biol. Chem. 1918, vol. 36. (G. H. Bloom.) Primary Carcinoma of the Vermiform Appendix. Am. J. Med. Sci., 1918, vol. 156.

FRANK HORACE REITER, A.B. Muhlenberg College, 1905; B.D. Lutheran Theological Seminary, 1908; Gallaudet College, M.A., 1909; Ph.D. University of Pennsylvania, 1917. *Teacher in Mt. Airy Institute; Instructor in Psychology, University of Pennsylvania.*

Research work: Psycho-physics: Corrective speech. Publications: Thesis, The Influence of Instruction on the Formation of Judgments in Lifted Weight Experiments.

FREDERICK DEFOREST WEIDMAN, M.D. University of Pennsylvania, 1908. *Professor of Pathology, Women's Medical College of Pennsylvania. Instructor in Pathology, University of Pennsylvania; Assistant Pathologist, Philadelphia Zoological Gardens; Assistant Director Dermatological Research, University of Pennsylvania.*

Research: Dermatology and Comparative Parasitology. Publications: Cytolichus penrosei, a New Arachnoid Parasite in the Deceased Lungs of a Prairie Dog, Cynomys ludovicianus. Journal of Parasitology, December 1916. A study of Metazoan Parasites found in the Philadelphia Zoological Gardens. Proc. Acad. Nat. Sci. Phila., March 1913.

CHARLES WEISS, B.S. College of the City of New York, 1915; M.Sc. New York University, 1916; Ph.D. University of Pennsylvania, 1918.

Research: Assistant Dept. Pathology, University of Pennsylvania. Investigations in the chemotherapy, immunology and chemical pathology of lobar pneumonia. Publications: The Toxic Substances from Virulent

Pneumococci (co-author). Jour. Infectious Diseases, 1918. The Properties of Pneumotoxin. Journal Medical Research, 1918. Biochemical studies of pneumonic exudates, etc. Archives Internal Medicine, 1918 (in press).

NON-RESIDENT

MICHAEL T. BARRETT, D.D.S. University of Pennsylvania, 1903; M.Sc. (honoris causa) Villanova, 1915. *Assistant Demonstrator in Mech. Dentistry*, 1903-10. *Assistant Instructor in Normal Histology*, 1910-14.

Research: Bacteriology of Dental Caries and Oral Endamoebiasis. Publications: The Protozoa of the Mouth in Relation to Pyorrhea Alveolaris. Dental Cosmos, August 1914. The Parasite of Oral Endamebiasis, *Endameba gingivalis* (Gros). Journal of Parasitology, June 1915.

WILLIAM ALEXANDER PEARSON, Ph.C. Ferris Institute, 1898; Ph.D. University of Michigan, 1902; M.D. (honoris causa) Hahnemann Medical College of the Pacific, 1915. *Professor of Chemistry, physiological chemistry and toxicology since 1908, dean since 1913, Hahnemann Medical College, Philadelphia.*

Research: Biological Chemistry. Publications: Preparation and Testing of Drugs. Jour. Franklin Inst., CLXXI, 415-421. Physiological activity of various pharmaceutical preparations of ergot. Jour. Amer. Pharm. Assn., II, 1453-1464. Physiological standardization of the heart tonics. Amer. Jour. Pharm., LXXXVI, 61-71.

WILLIAM MACY STANTON, B.S. in Arch. 1913, University of Pennsylvania; M.S. in Arch. 1914, University of Pennsylvania. First Medal Arch. design Beaux-Arts Society, Fellowship of American Academy in Rome; Placed in Final Competition, 1916. Associate Member Society of Naval Architects and Marine Engineers. *Instructor in Arch. University of Illinois, three years. Shipyard construction design, Chester Shipbuilding Co. one year. Instructor in Arch. Construction, U. of P. one year. Progress Engineer U. S. S. B. E. F. C.*

Research: Three years' work Graduate School, Univ. of Illinois. The Ionic Style and Its Influence on Modern Arch. Publications: Is there an American Style of Architecture? Architecture, December 1915.

ASSOCIATE MEMBERS ELECTED JANUARY 22, 1919

Towne Scientific School

GERALD ALVIN ANDERSON (Arch.)

ALVIN CHESTER BIEBER (Arch.)

JOHN CRAIG JANNEY (Arch.)

WILLIAM HENRY LIVINGSTON (Arch.)

Medical School

FRANCIS HEED ADLER, A.M. (Penna.)

FRANCIS CLARK GRANT, A.B. (Harvard)

WILLIAM ROGER GILMOUR, A.B. (Princeton)

JOHN KNOX MUSGRAVE, B.S. (Penna. State)

MATHEW WHITE PERRY, B.S. (Guilford)

KEMPTON P. A. TAYLOR, B.S. (Haverford)

SAMUEL PAUL TAYLOR, A.B. (Lehigh)

JAMES MUNROE THORINGTON, B.S. (Princeton)

NEW MEMBERS ELECTED MARCH 12, 1919

Member of Instructing Staff

HELEN DEAN KING, A.B. Vassar, 1892; Fellow, Bryn Mawr, 1897-1898; Ph.D. Bryn Mawr, 1899. *Teacher Physiology Miss Baldwin's School, 1899-1907; Assistant Anatomy, Wistar Institute, 1908-1909. Associate, 1909-1913; Assistant Professor, 1913 to date.*

Research work: Genetics, Sex-determination and Inbreeding. Studies in Sex-determination in Amphibians. *Biological Bulletin*, 1907, 1909, 1910; *Jour. Exp. Zool.* 1912. The Growth and Variability in the body weight of the albino rat. *Anat. Record*, 1915. Studies in inbreeding. *Jour. Exp. Zool.* parts I, II and III, 1919.

Associate Member—Medical School

ROWLAND WILSON BACHMAN

MINNESOTA CHAPTER

During the academic year 1918-1919 the Minnesota Chapter of Sigma Xi held four scientific meetings as follows:

February 26. Medical Service in the American Expeditionary Force in France, Major S. M. White.

March 19. Electromeres, a new type of chemical isomere, Dean Lauder W. Jones.

April 16. Candidates for the Doctor's degree spoke on the subjects of their theses as follows: Mr. A. R. Ringoen, The origin of the eosinophil leucocytes in mammals. Mr. G. D. Allen, Quantitative studies on the respiratory metabolism in *Planaria*. Miss Vinnie A. Pease, The morphology and taxonomy of the ligulate species of

the genus *Desmaresta*. Miss Lois Clark, The embryology of *Podophyllum*.

May 21. (Annual Banquet.) The encouragement of research, Dean R. W. Thatcher.

At each meeting a dinner was served and the talk was given in the dining room.

The following report of the Research Committee may be of interest to members of other chapters:

"In response to the request that the Committee work out plans for the awarding of a medal or some other appropriate form of recognition for the encouragement of original work in the University, we recommend the following:

1. That three Sigma Xi Prizes for Undergraduate Research be awarded annually by the Minnesota Chapter under the following conditions:

2. Undergraduate students in any school or college of the University of Minnesota shall be eligible, excepting those on the University payroll.

3. Papers or other evidences of research work offered in this connection may also be used by the student for thesis purposes or otherwise.

4. The prizes shall be awarded by vote of the Sigma Xi Society at the annual business meeting, upon recommendations by the Research Committee.

5. The prizes for the best three pieces of research work submitted shall include (a) the admission to active membership in the Chapter, (b) remission of the initiation fee and (c) special recognition in the form of the Society badge appropriately engraved.

6. The University will be requested to print the names of the three successful contestants on the Commencement program and also to award to each a scholarship carrying free tuition for one year in the Graduate School.

7. The Research Committee is requested to formulate and report such rules and changes in the By-Laws of the Chapter as may be necessary to carry out the plan outlined."

NEW MEMBERS ELECTED

Graduates

HENRY D. BARKER, B.S., M.S.

Plant Pathology

The Epidermiology of Black Stem Rust in the South (Manuscript).

LEE WILLIS BARRY, M.D. *Obstetrics and Gynecology*
The Effect of Inanition in the Pregnant Albino Rat with Special Reference to the Changes in the Relative Weights of the Various Parts, Systems, and Organs of the Offspring. Thesis for Ph.D.

WILLIAM CANTWELL, B.S. *Bacteriology*
The Influence of the Surface Tension of the Culture Media on the Growth of Bacteria. Jour. Infectious Diseases, 1919; 24.

HAROLD SHEELY DIEHL, B.A.
Specificity of Bacterial Ferments. Jour. Infectious Dis., 1919; 24.

JOHN W. GRUNER, B.A. *Geology*
Geologic Reconnaissance of the Southern Part of the Taos Range, New Mexico. Thesis for M.A.

SIEGFRIED F. HERRMANN, B.S. *Bacteriology*
Liberation of antibodies on injection of foreign protein. Jour. Infectious Diseases, 1918; 23.

JULIA HERRICK, B.A. *Physics*
A Method of Ascertaining the Direction of Penetrating Radiation. Thesis for M.A.

FREDERICK W. HVOSLEF, B.S. *Mechanical Engineering*
A Study for the Transmission of Heat through Glass. Thesis for M.S.

HELEN ADAMS MACKEEN, B.S. *Anatomy*
The Growth of the Abdominal Regions in the Human Fetus. Thesis for M.A.

FRANK LESTER ROBERTS, B.A. *Anatomy*
Changes in the Mammary Gland of the Albino Rat during the Second Half of Pregnancy. Thesis for M.A.

OSWALD ROGNELY, B.A., M.A. *Physics*
Thermionics. Thesis.

FREEMAN WEISS, B.S. *Plant Pathology*
Morphology of the Patriole Glands in the Plum. Manuscript for publication.

FACULTY

ANNE GERTRUDE BENTON, B.A., M.A. *Instructor in Bacteriology*
Nitrogen Metabolism of Bacteria. Jour. Infectious Dis., 1919; 24.

RAYMOND ADAMS DUTCHER, B.S., M.A., M.S. *Asst. Prof. of Agric. Biochem.*
Vitamine Studies. Jour. of Biological Chemistry, 1918; and other papers.

E. W. DAVIS, E.E. *Supt. School of Mines, Exper. Station*
Fine Crushing in Ball-Mills. Trans. Amer. Institute Mining Engrs., 1919.

RALPH JOHN GARBER, B.S., M.S. *Asst. Prof. of Plant Breeding*
A Study of the Relation of Some Morphological Characters to lodging
in Cereals. Jour. Amer. Soc. Agron., 1919; and other papers.

OSCAR W. OESTLUND, Ph.D. *Asst. Prof. of Animal Biology*
A Contribution to the Knowledge of the Tribes and Higher Groups of
the Family Aphididae (Homoptera). Seventeenth Report State Entom.
Minn., 1918; 46-72; and other papers.

CHARLES HERBERT ROGERS, B.S., M.S., Sc.D.
Asst. Prof. Pharmaceutical Chem.
The Chemical Investigation of the Resins from *Datura Metelloides*. Jour.
Amer. Pharmaceut. Assn., 1918, VIII; and other papers.

MARVIN JAMES VAN WAGENEN, B.S., M.A., Ph.D.
Asst. Prof. Educational Psych.
A Regrading of the Specimens of the Hillegas English Composition
Scale; and other papers.

ROYAL N. CHAPMAN, *Secretary*

UNION CHAPTER

During the year 1918-1919, four business meetings and five scientific meetings were held.

On November 22, 1918, Mr. W. R. Mott of Cleveland delivered an address on Projected Arc Images in a New Method of Chemical Analysis, at a joint meeting of the local chapter with the Eastern New York Section of the American Chemical Society.

On January 22, 1919, Major Carl Darnell, lately in charge of installing X-ray machines on the French front, delivered an illustrated address on The X-ray in War Time, before an open meeting of the chapter.

Dr. Thomas Ordway, Dean of the Albany Medical College of Union University, talked on Observations of the Cancer Problem, with Particular Reference to its Biological Relationship, at an open meeting on February 28.

Dean Benjamin H. Ripton of Union College gave an address on The Origin and Development of International Law, April 4, 1919.

Dr. Albert W. Hull of the Research Laboratory, General Electric Company, on May 2, delivered an illustrated address on Analysis of Crystals by Means of X-rays.

After considerable discussion, the by-laws of the chapter were revised to restrict student active membership to students of the senior class who are otherwise eligible, and who have completed some piece of original work of value. Associate membership was limited to "students who have given evidence of marked ability in those pursuits which it is the object of the society to promote, but who have not done a piece of original work."

On this basis, the following persons were duly elected and initiated:

ACTIVE MEMBERS

GRADUATES

JAMES J. SMITH

Electrical Engineering

Graduate student, and connected with Transformer Engineering Dept., General Electric Co. M.A. and M.Sci., National University of Ireland. Associate, Royal College of Science for Ireland. M.S. in E.E., Union College, 1919. Joint paper with Professor Brown published in the proceedings of the Royal Dublin Society, The Torsional Oscillations of Iron Wires in a Magnetic Field. Thesis for degree of M.S. in E.E., Union College, showing unusual originality, Magnetic Intensity due to a Solenoid, with Special Reference to the Critical Region.

UNDERGRADUATES

FREDERICK WILLIAM REYNOLDS

Electrical Engineering

A Study of Class-room Illumination. The Effect of a Suddenly Applied Force on the Amplitude of a Vibrating Diaphragm.

SAMUEL ROBINSON

Electrical Engineering

A Study of Class-room Illumination. The Effect of a Suddenly Applied Force on the Amplitude of a Vibrating Diaphragm.

ASSOCIATE MEMBERS

UNDERGRADUATE STUDENTS

MADISON LEWIS SHEELY

Chemistry

Preparation of Intermediate of Rhodamine B.

HAROLD RANSOM TALLMADGE

Civil Engineering

A Study of the Properties of Schenectady Sands with reference to their mortar-making qualities.

JOHN WHEELER VAN LOAN

Chemistry

Determination of Unsaturated Compounds in Schenectady Sewage.

HENRY VAN DE VERE PUTMAN

Electrical Engineering

A Study of Mutual Inductance in Partly Iron-clad Circuits.

M. F. SAYRE, *Secretary*

WORCESTER CHAPTER

Three meetings of the Worcester Chapter of the Society of the Sigma Xi have been held during the year 1918-1919. Ordinarily four meetings are held but the war program of the Student Army Training Corps prevented the Chapter from holding meetings during the first three months of the year.

The first meeting, held February 5, consisted of a short business meeting, followed by a talk by Professor W. L. Jennings on Chemistry in Warfare. The talk was followed by an informal discussion and social evening.

At the second meeting, held May 22, a supper was served to guests, candidates and active members of the chapter. During the business meeting which followed eight undergraduates were elected to membership. An open meeting followed, addressed by Mr. C. H. Bierbaum of Buffalo, who spoke on Bearings. This meeting was well attended both by members and outsiders.

The third meeting of the year was held June 24. During a business meeting reports were read and accepted. The officers for the following year were elected. Mr. Frank L. Sessions was elected as Alumni member. Professor A. W. Duff then addressed an open meeting on the subject, Some Experiences in Research on an Aviation Field. This embodied some of Dr. Duff's experiences while in the Government service.

The list of members initiated into the chapter follows:

ALUMNUS

FRANK L. SESSIONS, B.S. Mechanical Engineering, W. P. I. 1889;
M. E., W. P. I. 1909; Member A. S. M. E.; Associate Member
A. I. E. E.; Member Cleveland Engineering Society, etc.

UNDERGRADUATES FROM SENIOR CLASS

EDWIN WALTER BEMIS *Electrical Engineering*
Thesis substituted for other work.

ERASTUS LELAND DURKEE *Civil Engineering*
Thesis: A Study of the Stresses, Strains, and Structure of a 24-inch
80-pound I Beam.

RUSSELL WALKER HIRST AND
WILLIAM TINGLEY LIVERMORE *Mechanical Engineering*
Thesis: Effect of the Ratio of Air and Gasoline on an Automobile Engine
Performance.

- RAYMOND LAUDERDALE MATHISON *Mechanical Engineering*
Thesis: The Effect of Cold Work upon the Grain Structure of Low Carbon Steel.
- GEORGE ROLLO RICH *Civil Engineering*
Thesis: The Design of a Steel Mill Building.
- ROBERT CRIGHTON SESSIONS *Electrical Engineering*
Thesis substituted by other work.
- LOUIS ZIONS *Chemistry*
Thesis: The Synthesis of Urea and its Symmetrical Dimethyl Derivative.
- CHARLES B. HURD, *Secretary*
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WHAT ONE MAN THINKS

"I have seen enough of our own Chapter, as well as Chapters at other institutions, to know there is great difference in various matters of procedure and policy. So great is this difference that, in my opinion, we have no General Society, but merely a loose confederation of local Societies. I doubt whether the Society as a whole ever reaches the full possibilities of its influence until we have formed a close and binding affiliation, with a uniform policy, as well as a uniform method of procedure in nominating, electing, and treating members after initiation. Furthermore a uniform badge for all active members should be decided upon, I believe, or at least some method taken of getting rid of disbarred types, in order that no one could mistake our badge."

X, *Secretary of — Chapter*